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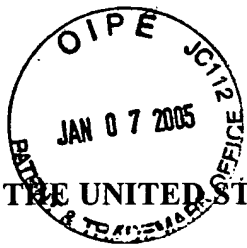
PTO/SB/21 (6-99)

Approved for use through 09/30/2000. OMB 0651-0031  
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<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)		Application Number	10/015,390																																				
		Filing Date	DECEMBER 12, 2001																																				
		First Named Inventor	DAVID BOTSTEIN																																				
		Group/Art Unit	1637																																				
		Examiner Name	FREDMAN, JEFFREY NORMAN																																				
Total Number of Pages in This Submission	48	Attorney Docket Number	39780-2830 P1C53																																				
<b>ENCLOSURES (check all that apply)</b>																																							
<table border="0"><tr><td><input type="checkbox"/> Fee Transmittal Form</td><td><input type="checkbox"/> Copy of an Assignment</td><td><input type="checkbox"/> After Allowance Communication to Group</td></tr><tr><td><input type="checkbox"/> Fee Attached</td><td><input type="checkbox"/> Drawing(s)</td><td><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences</td></tr><tr><td><input checked="" type="checkbox"/> <b>AMENDMENT / RESPONSE</b></td><td><input type="checkbox"/> Licensing-related Papers</td><td><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)</td></tr><tr><td><input type="checkbox"/> After Final</td><td><input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition</td><td><input type="checkbox"/> Proprietary Information</td></tr><tr><td><input type="checkbox"/> Version With Markings Showing Changes</td><td><input type="checkbox"/> Petition to Convert to a Provisional Application</td><td><input type="checkbox"/> Status Letter</td></tr><tr><td><input type="checkbox"/> Affidavits/declaration(s)</td><td><input type="checkbox"/> Power of Attorney, by Assignee to Exclusion of Inventor Under 37 C.F.R. §3.71 With Revocation of Prior Powers</td><td><input checked="" type="checkbox"/> <b>ADDITIONAL ENCLOSURE(S) (PLEASE IDENTIFY BELOW):</b></td></tr><tr><td><input type="checkbox"/> Extension of Time Request</td><td><input type="checkbox"/> Terminal Disclaimer</td><td><input checked="" type="checkbox"/> <b>PAGES 113-149 OF U.S. PROVISIONAL APPLICATION SERIAL NO. 60/162,506; and STAMPED RETURN POSTCARD</b></td></tr><tr><td><input type="checkbox"/> Information Disclosure Statement</td><td><input type="checkbox"/> Small Entity Statement</td><td></td></tr><tr><td><input type="checkbox"/> Certified Copy of Priority Document(s)</td><td><input type="checkbox"/> Request for Refund</td><td></td></tr><tr><td><input type="checkbox"/> Response to Missing Parts/ Incomplete Application</td><td></td><td></td></tr><tr><td><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53</td><td></td><td></td></tr><tr><td><input type="checkbox"/> Copy of Notice</td><td></td><td></td></tr></table>				<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Copy of an Assignment	<input type="checkbox"/> After Allowance Communication to Group	<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences	<input checked="" type="checkbox"/> <b>AMENDMENT / RESPONSE</b>	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)	<input type="checkbox"/> After Final	<input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition	<input type="checkbox"/> Proprietary Information	<input type="checkbox"/> Version With Markings Showing Changes	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter	<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, by Assignee to Exclusion of Inventor Under 37 C.F.R. §3.71 With Revocation of Prior Powers	<input checked="" type="checkbox"/> <b>ADDITIONAL ENCLOSURE(S) (PLEASE IDENTIFY BELOW):</b>	<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> <b>PAGES 113-149 OF U.S. PROVISIONAL APPLICATION SERIAL NO. 60/162,506; and STAMPED RETURN POSTCARD</b>	<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Small Entity Statement		<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Request for Refund		<input type="checkbox"/> Response to Missing Parts/ Incomplete Application			<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53			<input type="checkbox"/> Copy of Notice		
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<table border="1"><tr><td>Remarks</td><td colspan="3">AUTHORIZATION TO CHARGE DEPOSIT ACCOUNT <u>08-1641</u> FOR ANY FEES DUE IN CONNECTION WITH THIS PAPER, REFERENCING ATTORNEY'S DOCKET NO. <u>39780-2830 P1C53.</u></td></tr></table>				Remarks	AUTHORIZATION TO CHARGE DEPOSIT ACCOUNT <u>08-1641</u> FOR ANY FEES DUE IN CONNECTION WITH THIS PAPER, REFERENCING ATTORNEY'S DOCKET NO. <u>39780-2830 P1C53.</u>																																		
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<b>SIGNATURE OF APPLICANT, ATTORNEY OR AGENT</b>																																							
Firm or Individual name	HELLER EHRMAN WHITE & McAULIFFE LLP ANNA L. BARRY (Reg. No. 51,436)																																						
	275 Middlefield Road, Menlo Park, California 94025 Telephone: (650) 324-7000 Facsimile: (650) 324-0638																																						
Signature																																							
Date	JANUARY 7, 2005	Customer Number:	35489																																				
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	)	Examiner: Fredman, Jeffrey Norman
	)	
David BOTSTEIN, et al.	)	Art Unit: 1637
	)	
Application Serial No. 10/015,390	)	Confirmation No: 9959
	)	
Filed: December 12, 2001	)	Attorney's Docket No. 39780-2830 P1C53
	)	
For: <b>SECRETED AND</b>	)	<b>Customer No. 35489</b>
<b>TRANSMEMBRANE</b>	)	
<b>POLYPEPTIDES AND NUCLEIC</b>	)	
<b>ACIDS ENCODING THE SAME</b>	)	

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**AMENDMENT AND RESPONSE TO FINAL OFFICE ACTION**

**MAIL STOP AF**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

In response to the Final Office Action mailed on November 8, 2004, in connection with the above-identified patent application (Paper No./Mail Date 20041103), please enter the following amendments, and consider the following arguments.

**Amendments to the Claims** begins on page 2 of this paper.

**Remarks/Arguments** begin on page 4 of this paper.